SEQUENCE LISTING

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<110> INCYTE PHARMACEUTICALS, INC.
      TANG, Y. Tom
      CORLEY, Neil C.
      GUEGLER, Karl J.
      GORGONE, Gina A.
      PATTERSON, Chandra
      HILLMAN, Jennifer L.
      BAUGHN, Mariah R.
      LAL, Preeti
      AZIMZAI, Yalda
      YUE, Henry
      YANG, Junming
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<151> 1998-09-17; 1998-09-17; 1998-09-22; 1998-09-22; 1998-11-04;
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Tyr Thr Arg Arg Pro Arg Gly Phe Ala Tyr Val Gln Phe Glu Asp
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Val Arg Asp Ala Glu Asp Ala Leu His Asn Leu Asp Arg Lys Trp
                                     70
                 65
Ile Cys Gly Arg Gln Ile Glu Ile Gln Phe Ala Gln Gly Asp Arg
                                     85
                 80
Lys Thr Pro Asn Gln Met Lys Ala Lys Glu Gly Arg Asn Val Tyr
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Ser Ser Ser Arg Tyr Asp Asp Tyr Asp Arg Tyr Arg Arg Ser Arg
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Tyr Asn Tyr Arg Arg Ser Tyr Ser Pro Arg Asn Ser Arg Pro Thr
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Gly Arg Pro Arg Arg Glu Ala Ile Pro Thr Met Ile Asp Gln
                                    160
                155
Thr Ala Ala Gly Ile Pro Ser Thr Val Leu Leu Thr Thr Leu Gln
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Glu Arg Ser Glu Ser Gly Lys Arg Thr Lys Glu Gly Gln Phe Lys
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Arg Pro Lys Gly Gly Trp Lys Val Leu Gln Tyr Glu Tyr Cys Thr
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Asn Ile Leu Thr Leu Val
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Ala Ala Ser Asp Gln Lys Gln Glu Glu Lys Pro Lys Pro Asp Pro

Val Leu Lys Ser Pro Ser Pro Val Leu Arg Leu Val Leu Ser Gly

215

220

														040
~1	-	-	~2	230		61. .	01-	mb	235	<i>α</i> 1	Th.w	mb w	ת הות	240
GIU	гÀг	Lys	GIU	245	GIU	GIY	GIII	Thr	250	GIU	1111	1111	ALA	255
17-1	Sar	Tlo	Λla		Lau	Dro	T.e.11	Pro		Ser	Pro	Thr	Thr	
val	261	116	AIA	260	Бец	FIO	neu	110	265	501				270
Ser	Ser	Val	Δla		Ser	Thr	Ile	Ala		Pro	Thr	Ser	Ser	
	001	• • • •		275					280					285
Leu	Ser	Ser	Gln		Ile	Phe	Thr	Thr	Ala	Ile	Asp	Asp	Arq	Cys
				290					295		-	-	Ū	300
Glu	Leu	Ser	Ser	Pro	Arg	Glu	Asp	Thr	Ile	Pro	Ile	Pro	Ser	Leu
				305					310					315
Thr	Ser	Cys	Thr	Glu	Thr	Ser	Asp	Pro	Leu	Pro	Thr	Asn	Glu	Asn
				320					325					330
Asp	Asp	Asp	Ile	Cys	Lys	Lys	Pro	Cys		Val	Ala	Pro	Asn	
_			_	335			_	_	340	_	~-7		_	345
Ile	Pro	Leu	Val		Ser	Thr	Asn	Leu		Asn	GIU	ııe	Asn	
77- 7		~1	-	350	a	77-	mla sa	~1	355	71 0	37-7	C1.,	т1.	360
val	ser	Giu	ьуs	ьеи 365	ser	Ата	THE	Glu	370	TIE	vaı	Giu	TTE	375
Lve	Gln	Glu	17 a 1		Dro	T.e.11	Thr	Leu		T.e.11	Glu	Tle	Leu	
Lys	0111	OI u	V 44 1	380	110				385					390
Asn	Pro	Pro	Glu		Met	Lys	Leu	Glu	Cys	Ile	Pro	Ala	Pro	Ile
				395		-			400					405
Thr	Pro	Ser	Thr	Val	Pro	Ser	Phe	Pro	Pro	Thr	Pro	Pro	Thr	Pro
				410					415					420
Pro	Ala	Ser	Pro		His	Thr	Pro	Val		Val	Pro	Ala	Ala	
	_,		_	425	_	_	~ 2 -	7.7 -	430	m1	**- 1	~1	B	435
Thr	Thr	Val	Ser	Ser 440	Pro	ser	Ala	Ala	11e	Thr	var	GIN	Arg	450
Len	Glu	Glu	λan		Ser	Tle	Δτα	Thr		Leu	Ser	Glu	Asp	
			nop	455	501				460					465
Lys	Glu	Ile	Gln		Lys	Ile	Glu	Val	Glu	Ala	Asp	Gly	Gln	Thr
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Glu	Glu	Ile	Leu	Asp	Ser	Gln	Asn	Leu	Asn	Ser	Arg	Arg	Ser	
				485				_	490			_		495
Val	Pro	Ala	Gln		Ala	Ile	Thr	Val		Lys	Thr	Trp	Lys	
D	T	*	3	500	3	mla sa	Mla se	<i>α</i> 3	505	Mot	T 011	~1	ח ח	510
PIO	ьys	Asp	Arg	515	Arg	1111	1111	Glu	520	Mec	пеп	Gru	AIG	525
Leu	Glu	Leu	Lvs		Glu	Glu	Glu	Leu		Ile	Asp	Lvs	Val	_
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Glu	Ser	Glu	Gln	Asp	Lys	Met	Ser	Gln	Gly	Phe	His	Pro	Glu	Arg
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Asp	Pro	Ser	Asp	Leu	Lys	Lys	Val	Lys	Ala	Val	Glu	Glu	Asn	
				560					565					570
Glu	Glu	Ala	Glu		Val	Arg	Asn	Gly		Glu	Ser	Val	Ser	
01	~ 3	~1.		575	- 1 -		0	a1	580	mla sa	7 ~~	Com	Com	585
GIY	GIU	GIY	тте	Asp 590	Ala	ASN	ser	Gly	595	Inr	ASD	Ser	ser	600
Δen	Glv	Val	Thr		Dro	Dhe	Lvs	Pro		Ser	Tro	Lvs	Pro	
лэр	Cry	Val	1111	605	110	THE	ביים	110	610					615
Asp	Thr	Glu	Glv		Lvs	Gln	Tyr	Asp		Glu	Phe	Leu	Leu	
- F			1	620				Ŀ	625					630
Phe	Gln	Phe	Met		Ala	Cys	Ile	Gln	Lys	Pro	Glu	Gly	Leu	Pro
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Pro	Ile	Ser	Asp		Val	Leu	Asp	Lys		Asn	Gln	Pro	Lys	
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Pro	Met	Arg	Thr	Leu 665	Asp	Pro	Arg	Ile	Leu 670	Pro	Arg	Gly	Pro	Asp 675
Phe	Thr	Pro	Ala	Phe 680	Ala	Asp	Phe	Gly	Arg 685	Gln	Thr	Pro	Gly	Gly 690
Arg	Gly	Val	Pro		Leu	Asn	Val	Gly	Ser 700	Arg	Arg	Ser	Gln	Pro 705
Gly	Gln	Arg	Arg		Pro	Arg	Lys	Ile		Thr	Val	Ser	Val	
Glu	Asp	Val	His		Lys	Lys	Ala	Glu		Ala	Trp	Lys	Pro	
Gln	Lys	Arg	Asp	Ser	Gln	Ala	Asp	Asp		Glu	Asn	Ile	Lys	
Gln	Glu	Leu	Phe		Lys	Val	Arg	Ser		Leu	Asn	Lys	Leu	
Pro	Gln	Met	Phe		Gln	Leu	Met	Lys		Val	Ser	Gly	Leu	
Val	Asp	Thr	Glu		Arg	Leu	Lys	Gly		Ile	Asp	Leu	Val	
Glu	Lys	Ala	Ile		Glu	Pro	Ser	Phe		Val	Ala	Tyr	Ala	
Met	Cys	Arg	Cys	800 Leu 815	Val	Thr	Leu	Lys		Pro	Met	Ala	Asp	
Pro	Gly	Asn	Thr		Asn	Phe	Arg	Lys		Leu	Leu	Asn	Arg	
Gln	Lys	Glu	Phe		Lys	Asp	Lys	Ala		Asp	Asp	Val	Phe	
Lys	Lys	Gln	Lys		Leu	Glu	Ala	Ala		Ala	Pro	Glu	Glu	
Thr	Arg	Leu	His		Glu	Leu	Glu	Glu	-	Lys	Asp	Lys	Ala	
Arg	Arg	Ser	Ile		Asn	Ile	Lys	Phe		Gly	Glu	Leu	Phe	
Leu	Lys	Met	Leu		Glu	Ala	Ile	Met		Asp	Cys	Val	Val	
Leu	Leu	Lys	Asn		Asp	Glu	Glu	Ser		Glu	Cys	Leu	Cys	
Leu	Leu	Thr	Thr		Gly	Lys	Asp	Leu		Phe	Glu	Lys	Ala	Lys 945
Pro	Arg	Met	Asp		Tyr	Phe	Asn	Gln	Met 955	Glu	Lys	Ile	Val	Lys 960
Glu	Lys	Lys	Thr		Ser	Arg	Ile	Arg		Met	Leu	Gln	Asp	Val 975
Ile	Asp	Leu	Arg		Cys	Asn	Trp	Val		Arg	Arg	Ala	Asp	Gln 990
Gly	Pro	Lys	Thr		Glu	Gln	Ile	His 1	Lys .000	Glu	Ala	Lys		Glu .005
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Thr	Val	Gln	Gly		Lys	Asn	Ser	Arg		Leu	Asp	Pro		Lys .050
Phe	Leu	Lys	Ile		Lys	Pro	Thr	Ile		Glu	Lys	Ile	Gln	
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Thr	Ser	Arg	Gly Ser	Met	Gly	Arg	Glu Lys 1135	Asn	Asp	Lys	Pro Leu 1140
Pro	Ser	Ala		Arg	Pro	Asn	Thr Phe 1150	Met	Arg	Gly	Gly Ser 1155
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			1175				Leu Thr 1180				1185
			1190				Arg Asn 1195				1200
			1205				Ser Ala 1210				1215
			1220				Lys Ser 1225				1230
			1235				Lys Glu 1240				1245
			1250				Leu His				1260
_			1265				Ser Gln 1270				1275
			1280				Val Gln 1285				1290
			1295				Ser Glu 1300				1305
			1310				His Ile 1315				1320
			1325				Glu Gly 1330				1335
			1340				Pro Leu 1345				1350
			1355				Leu His				1365
							Leu Trp 1375				1380 Asn Phe
			1385				1390				1395
			1400				1405				Pro Cys 1410
			1415				1420				Glu Leu 1425 Asn Asp
			1430				1435				Asn Asp 1440 The Ghn
			1445				1450				Ile Gln 1455 Val Cvs
			1460				1465				Val Cys 1470
			1475				1480				Asp Thr 1485 Leu Asp
			1490				1495				Leu Asp 1500 Gln Ala
Ser	Asp	Thr	Glu Lys 1505	Glu	Leu	GIN	1510	īÀĽ	MIG	neu	Gln Ala 1515

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Ser Ile Val Lys Leu Asp Gln Pro Ala Asn Leu Leu Arg Met Phe
                                   1525
Phe Asp Cys Leu Tyr Asp Glu Glu Val Ile Ser Glu Asp Ala Phe
                                   1540
               1535
Tyr Lys Trp Glu Ser Ser Lys Asp Pro Ala Glu Gln Asn Gly Lys
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Gly Leu His Phe Arg Val Leu Asp Met Pro Thr Gln Glu Leu Gly
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                                     40
Leu Pro Ala Tyr Arg Lys Phe Asp Ile Glu Ala Trp Met Pro Gly
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Arg Gly Arg Phe Gly Glu Val Thr Ser Ala Ser Asn Cys Thr Asp
                                     70
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Phe Gln Ser Arg Arg Leu His Ile Met Phe Gln Thr Glu Ala Gly
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Glu Leu Gln Phe Ala His Thr Val Asn Ala Thr Ala Cys Ala Val
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                 95
Pro Arg Leu Leu Ile Ala Leu Leu Glu Ser Asn Gln Gln Lys Asp
                                    115
                110
Gly Ser Val Leu Val Pro Pro Ala Leu Gln Ser Tyr Leu Gly Thr
                                    130
                125
Asp Arg Ile Thr Ala Pro Thr His Val Pro Leu Gln Tyr Ile Gly
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Pro Asn Gln Pro Arg Lys Pro Gly Leu Pro Gly Gln Pro Ala Val
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Ala Ala Trp Glu Asp Glu Asp Asp Ala Asp Leu Pro His Gly Lys
Gln Gln Thr Pro Cys Leu Phe Cys Asn Arg Leu Phe Thr Ser Ala
Glu Glu Thr Phe Ser His Cys Lys Ser Glu His Gln Phe Asn Ile
                 65
                                      70
Asp Ser Met Val His Lys His Gly Leu Glu Phe Tyr Gly Tyr Ile
                 80
                                      85
Lys Leu Ile Asn Phe Ile Arg Leu Lys Asn Pro Thr Val Glu Tyr
                                     100
                 95
Met Asn Ser Ile Tyr Asn Pro Val Pro Trp Glu Lys Glu Glu Tyr
                110
                                     115
Leu Lys Pro Val Leu Glu Asp Asp Leu Leu Leu Gln Phe Asp Val
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                                     130
Glu Asp Leu Tyr Glu Pro Val Ser Val Pro Phe Ser Tyr Pro Asn
                140
                                     145
Gly Leu Ser Glu Asn Thr Ser Val Val Glu Lys Leu Lys His Met
                                     160
Glu Ala Arg Ala Leu Ser Ala Glu Ala Ala Leu Ala Arg Ala Arg
                170
                                     175
Glu Asp Leu Gln Lys Met Lys Gln Phe Ala Gln Asp Phe Val Met
                185
                                     190
His Thr Asp Val Arg Thr Cys Ser Ser Ser Thr Ser Val Ile Ala
                200
                                     205
Asp Leu Gln Glu Asp Glu Asp Gly Val Tyr Phe Ser Ser Tyr Gly
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                                     220
His Tyr Gly Ile His Glu Glu Met Leu Lys Asp Lys Ile Arg Thr
                                     235
                230
Glu Ser Tyr Arg Asp Phe Ile Tyr Gln Asn Pro His Ile Phe Lys
                                     250
                245
Asp Lys Val Val Leu Asp Val Gly Cys Gly Thr Gly Ile Leu Ser
                                     265
Met Phe Ala Ala Lys Ala Gly Ala Lys Lys Val Leu Gly Val Asp
                                     280
                275
Gln Ser Glu Ile Leu Tyr Gln Ala Met Asp Ile Ile Arg Leu Asn
                290
Lys Leu Glu Asp Thr Ile Thr Leu Ile Lys Gly Lys Ile Glu Glu
                305
                                     310
Val His Leu Pro Val Glu Lys Val Asp Val Ile Ile Ser Glu Trp
                320
                                     325
Met Gly Tyr Phe Leu Leu Phe Glu Ser Met Leu Asp Ser Val Leu
                335
                                     340
Tyr Ala Lys Asn Lys Tyr Leu Ala Lys Gly Gly Ser Val Tyr Pro
                                     355
                350
Asp Ile Cys Thr Ile Ser Leu Val Ala Val Ser Asp Val Asn Lys
                                     370
                365
His Ala Asp Arg Ile Ala Phe Trp Asp Asp Val Tyr Gly Phe Lys
                                     385
                380
Met Ser Cys Met Lys Lys Ala Val Ile Pro Glu Ala Val Val Glu
Val Leu Asp Pro Lys Thr Leu Ile Ser Glu Pro Cys Gly Ile Lys
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His Ile Asp Cys His Thr Thr Ser Ile Ser Asp Leu Glu Phe Ser
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425
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Ser Asp Phe Thr Leu Lys Ile Thr Arg Thr Ser Met Cys Thr Ala
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                440
Ile Ala Gly Tyr Phe Asp Ile Tyr Phe Glu Lys Asn Cys His Asn
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Arg Val Val Phe Ser Thr Gly Pro Gln Ser Thr Lys Thr His Trp
                                     475
Lys Gln Thr Val Phe Leu Leu Glu Lys Pro Phe Ser Val Lys Ala
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Gly Glu Ala Leu Lys Gly Lys Val Thr Val His Lys Asn Lys Lys
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Gln Thr Tyr Gly Leu Gln
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                 35
                                      40
Ser Ser Gly Arg Arg Gln Gly Ile Lys Lys Met Glu Gly His Tyr
                                     55
                 50
Val His Ala Gly Asn Ile Ile Ala Thr Gln Arg His Phe Arg Trp
                                     70
                 65
His Pro Gly Ala His Val Gly Val Gly Lys Asn Lys Cys Leu Tyr
                                      85
Ala Leu Glu Glu Gly Ile Val Arg Tyr Thr Lys Glu Val Tyr Val
                 95
Pro His Pro Arg Asn Thr Glu Ala Val Asp Leu Ile Thr Arg Leu
                                    115
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Pro Lys Gly Ala Val Leu Tyr Lys Thr Phe Val His Val Val Pro
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Ala Lys Pro Glu Gly Thr Phe Lys Leu Val Ala Met Leu
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WO 00/15799

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Leu Ser Phe Leu Ile His Ala Lys Ala Phe Ser Thr Ala Glu Asp
                                      55
                 50
Thr Gln Asn Glu Gly Lys Lys Thr Lys Lys Asn Lys Thr Ala Phe
                                     70
                 65
Ser Asn Val Gly Arg Lys Ile Ser Gln Arg Val Ile His Leu Phe
                                     85
                 80
Asp Glu Lys Gly Asn Asp Leu Gly Asn Met His Arg Ala Asn Val
                                    100
Ile Arg Leu Met Asp Glu Arg Asp Leu Arg Leu Val Gln Arg Asn
                                    115
                110
Thr Ser Thr Glu Pro Ala Glu Tyr Gln Leu Met Thr Gly Leu Gln
                                    130
Ile Leu Gln Glu Arg Gln Arg Leu Arg Glu Met Glu Lys Ala Asn
                                    145
Pro Lys Thr Gly Pro Thr Leu Arg Lys Glu Leu Ile Leu Ser Ser
                                    160
                155
Asn Ile Gly Gln His Asp Leu Asp Thr Lys Thr Lys Gln Ile Gln
                                    175
                170
Gln Trp Ile Lys Lys Lys His Leu Val Gln Ile Thr Ile Lys Lys
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                                    190
Gly Lys Asn Val Asp Val Ser Glu Asn Glu Met Glu Glu Ile Phe
                200
                                    205
His Gln Ile Leu Gln Thr Met Pro Gly Ile Ala Thr Phe Ser Ser
                215
                                    220
Arg Pro Gln Ala Val Gln Gly Gly Lys Ala Leu Met Cys Val Leu
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                                    235
Arg Ala Leu Ser Lys Asn Glu Glu Lys Ala Tyr Lys Glu Thr Gln
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Lys Glu Ser Asn Val Leu His Gln
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 Asp
 Ala
 Val
 Asn
 Ala
 Ala
 Pro
 Leu
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 5
 Leu
 Glu
 Pro
 Lys
 Lys
 Met
 Thr
 Arg

 30
 20
 25
 25
 30

 Glu
 Asp
 Trp
 Arg
 Lys
 Lys
 Glu
 Leu
 Glu
 Glu
 Glu
 Glu
 Arg
 Lys
 Leu

 35
 40
 40
 45

Gly	Asn	Ala	Pro	Ala 50	Glu	Val	Asp	Glu	Glu 55	Gly	Lys	Asp	Ile	Asn 60
Pro	His	Ile	Pro		Tyr	Ile	Ser	Ser		Pro	Trp	Tyr	Ile	Asp 75
Pro	Ser	Lys	Arg		Thr	Leu	Lys	His	Gln 85	Arg	Pro	Gln	Pro	Glu 90
Lys	Gln	Lys	Gln	Phe 95	Ser	Ser	Ser	Gly	Glu 100	Trp	Tyr	Lys	Arg	Gly 105
Val	Lys	Glu	Asn	Ser 110	Ile	Ile	Thr	Lys	Tyr 115	Arg	Lys	Gly	Ala	Cys 120
Glu	Asn	Cys	Gly	Ala 125	Met	Thr	His	Lys	Lys 130	Lys	Asp	Cys	Phe	Glu 135
Arg	Pro	Arg	Arg		Gly	Ala	Lys	Phe	Thr 145	Gly	Thr	Asn	Ile	Ala 150
Pro	Asp	Glu	His		Gln	Pro	Gln	Leu	Met 160	Phe	Asp	Tyr	Asp	Gly 165
Lys	Arg	Asp	Arg	Trp 170	Asn	Gly	Tyr	Asn	Pro 175	Glu	Glu	His	Met	Lys 180
Ile	Val	Glu	Glu	Tyr 185	Ala	Lys	Val	Asp	Leu 190	Ala	Lys	Arg	Thr	Leu 195
Lys	Ala	Gln	Lys	Leu 200	Gln	Glu	Glu	Leu	Ala 205	Ser	Gly	Lys	Leu	Val 210
Glu	Gln	Ala	Asn	Ser 215	Pro	Lys	His	Gln	Trp 220	Gly	Glu	Glu	Glu	Pro 225
Asn	Ser	Gln	Thr	Glu 230	Lys	Asp	His	Asn	Ser 235	Glu	Asp	Glu	Asp	Glu 240
Asp	Lys	Tyr	Ala	Asp 245	Asp	Ile	Asp	Met	Pro 250	Gly	Gln	Asn	Phe	Asp 255
				260					265				Glu	270
		_	=	275					280				Tyr	285
				290					295				Asn	300
				305					310				Phe	315
			_	320					325				Leu	330
				335					340				Gln	345
				350					355				Val	360
				365					370				Glu	375
				380					385				Leu	390
				395					400				Gly	405
				410					415				Tyr	420
				425					430				Ser	435
				440					445				Phe	450
			_	455					460				Val	465
Ser	Glu	Glu	Cys	Ile	Ile	Asn	Glu	Ile	Thr	Gly	Glu	Glu	Ser	Val

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470
                                    475
Lys Lys Pro Gln Thr Leu Met Glu Leu His Gln Glu Lys Leu Lys
                485
                                    490
Glu Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys His Arg Lys
                500
                                     505
Ser Ser Ser Asp Ser Asp Glu Glu Lys Lys His Glu Lys Leu
                                     520
Lys Lys Ala Leu Asn Ala Glu Glu Ala Arg Leu Leu His Val Lys
                                     535
                530
Glu Thr Met Gln Ile Asp Glu Arg Lys Arg Pro Tyr Asn Ser Met
                                     550
Tyr Glu Thr Arg Glu Pro Thr Glu Glu Glu Met Glu Ala Tyr Arg
                                    565
                560
Met Lys Arg Gln Arg Pro Asp Pro Met Ala Ser Phe Leu Gly
                                    580
                                                         585
Gln
<210> 9
<211> 384
<212> PRT
<213> Homo sapiens
<220>
<221> misc feature
<223> Incyte ID No.: 2049352CD1
Met Lys Pro His Phe Arg Asn Thr Val Glu Arg Met Tyr Arg Asp
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Thr Phe Ser Tyr Asn Phe Tyr Asn Arg Pro Ile Leu Ser Arg Arg
                                     25
                 20
Asn Thr Val Trp Leu Cys Tyr Glu Val Lys Thr Lys Gly Pro Ser
                                     40
Arg Pro Pro Leu Asp Ala Lys Ile Phe Arg Gly Gln Val Tyr Ser
                                     55
                 50
Glu Leu Lys Tyr His Pro Glu Met Arg Phe Phe His Trp Phe Ser
                                     70
Lys Trp Arg Lys Leu His Arg Asp Gln Glu Tyr Glu Val Thr Trp
Tyr Ile Ser Trp Ser Pro Cys Thr Lys Cys Thr Arg Asp Met Ala
                                    100
                 95
Thr Phe Leu Ala Glu Asp Pro Lys Val Thr Leu Thr Ile Phe Val
                                    115
                110
Ala Arg Leu Tyr Tyr Phe Trp Asp Pro Asp Tyr Gln Glu Ala Leu
                                    130
                125
Arg Ser Leu Cys Gln Lys Arg Asp Gly Pro Arg Ala Thr Met Lys
                                    145
                140
Ile Met Asn Tyr Asp Glu Phe Gln His Cys Trp Ser Lys Phe Val
                                    160
                155
Tyr Ser Gln Arg Glu Leu Phe Glu Pro Trp Asn Asn Leu Pro Lys
                                    175
Tyr Tyr Ile Leu Leu His Ile Met Leu Gly Glu Ile Leu Arg His
                                    190
Ser Met Asp Pro Pro Thr Phe Thr Phe Asn Phe Asn Asn Glu Pro
                                    205
                200
Trp Val Arg Gly Arg His Glu Thr Tyr Leu Cys Tyr Glu Val Glu
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220
                215
Arg Met His Asn Asp Thr Trp Val Leu Leu Asn Gln Arg Arg Gly
                                    235
                230
Phe Leu Cys Asn Gln Ala Pro His Lys His Gly Phe Leu Glu Gly
                                    250
Arg His Ala Glu Leu Cys Phe Leu Asp Val Ile Pro Phe Trp Lys
                                    265
                260
Leu Asp Leu Asp Gln Asp Tyr Arg Val Thr Cys Phe Thr Ser Trp
                275
Ser Pro Cys Phe Ser Cys Ala Gln Glu Met Ala Lys Phe Ile Ser
                                    295
                290
Lys Asn Lys His Val Ser Leu Cys Ile Phe Thr Ala Arg Ile Tyr
                                    310
                305
Asp Asp Gln Gly Arg Cys Gln Glu Gly Leu Arg Thr Leu Ala Glu
                                    325
                320
Ala Gly Ala Lys Ile Ser Ile Leu Thr Tyr Ser Glu Phe Lys His
                                    340
                335
Cys Trp Asp Thr Phe Val Asp His Gln Gly Cys Pro Phe Gln Pro
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Trp Asp Gly Leu Glu Glu His Ser Gln Ala Leu Ser Gly Arg Leu
Arg Gly Ile Leu Gln Asn Gln Gly Ser
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<210> 10

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 2231663CD1

<400> 10

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Glu Val Lys Ile Ala Glu Glu Asn Gly Ala Ala Phe Ala Gly Gly
                                    175
                170
Thr Ser Leu Ile Gln Lys Ile Trp Asp Asp Glu Ile Val Ala Asp
                                    190
Phe Tyr Val Ala Val Pro Glu Ile Met Pro Glu Leu Asn Arg Leu
                200
                                    205
Arg Lys Lys Leu Asn Lys Lys Tyr Pro Lys Leu Ser Arg Asn Ser
Ile Gly Arg Asp Ile Pro Lys Met Leu Glu Leu Phe Lys Asn Gly
                                    235
                                                         240
                230
His Glu Ile Lys Val Asp Glu Glu Arg Glu Asn Phe Leu Gln Thr
                245
                                    250
Lys Ile Ala Thr Leu Asp Met Ser Ser Asp Gln Ile Ala Ala Asn
                                    265
                260
Leu Gln Ala Val Ile Asn Glu Val Cys Arg His Arg Pro Leu Asn
                275
                                    280
Leu Gly Pro Phe Val Val Arg Ala Phe Leu Arg Ser Ser Thr Ser
                290
                                    295
Glu Gly Leu Leu Lys Ile Asp Pro Leu Leu Pro Lys Glu Val
                305
                                    310
Lys Asn Glu Glu Ser Glu Lys Glu Asp Ala
                                    325
                320
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<210> 11

<211> 351

<212> PRT

<213> Homo sapiens

<220>

<221> misc feature

<223> Incyte ID No.: 2604449CD1

<400> 11

Met Gly Asp Pro Glu Arg Pro Glu Ala Ala Gly Leu Asp Gln Asp 10 Glu Arg Ser Ser Ser Asp Thr Asn Glu Ser Glu Ile Lys Ser Asn Glu Glu Pro Leu Leu Arg Lys Ser Ser Arg Arg Phe Val Ile Phe Pro Ile Gln Tyr Pro Asp Ile Trp Lys Met Tyr Lys Gln Ala Gln 50 55 Ala Ser Phe Trp Thr Ala Glu Glu Val Asp Leu Ser Lys Asp Leu 70 65 Pro His Trp Asn Lys Leu Lys Ala Asp Glu Lys Tyr Phe Ile Ser 85 80 His Ile Leu Ala Phe Phe Ala Ala Ser Asp Gly Ile Val Asn Glu 95 100 Asn Leu Val Glu Arq Phe Ser Gln Glu Val Gln Val Pro Glu Ala 115 110 Arg Cys Phe Tyr Gly Phe Gln Ile Leu Ile Glu Asn Val His Ser 130 Glu Met Tyr Ser Leu Leu Ile Asp Thr Tyr Ile Arg Asp Pro Lys 145 Lys Arg Glu Phe Leu Phe Asn Ala Ile Glu Thr Met Pro Tyr Val 160 Lys Lys Lys Ala Asp Trp Ala Leu Arg Trp Ile Ala Asp Arg Lys

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180
                                    175
                170
Ser Thr Phe Gly Glu Arg Val Val Ala Phe Ala Ala Val Glu Gly
                                    190
Val Phe Phe Ser Gly Ser Phe Ala Ala Ile Phe Trp Leu Lys Lys
                                    205
Arg Gly Leu Met Pro Gly Leu Thr Phe Ser Asn Glu Leu Ile Ser
                                    220
                215
Arg Asp Glu Gly Leu His Cys Asp Phe Ala Cys Leu Met Phe Gln
                                    235
                230
Tyr Leu Val Asn Lys Pro Ser Glu Glu Arg Val Arg Glu Ile Ile
                                   250
                245
Val Asp Ala Val Lys Ile Glu Gln Glu Phe Leu Thr Glu Ala Leu
                                                         270
                                    265
                260
Pro Val Gly Leu Ile Gly Met Asn Cys Ile Leu Met Lys Gln Tyr
                                    280
                275
Ile Glu Phe Val Ala Asp Arg Leu Leu Val Glu Leu Gly Phe Ser
                                    295
Lys Val Phe Gln Ala Glu Asn Pro Phe Asp Phe Met Glu Asn Ile
                                    310
                305
Ser Leu Glu Gly Lys Thr Asn Phe Phe Glu Lys Arg Val Ser Glu
                320
                                    325
Tyr Gln Arg Phe Ala Val Met Ala Glu Thr Thr Asp Asn Val Phe
                                    340
                335
Thr Leu Asp Ala Asp Phe
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<210> 12 <211> 681 <212> PRT <213> Homo sapiens <220>

<221> misc feature

<223> Incyte ID No.: 2604993CD1

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Pro	Asp	Ile	Asp	Lys 155	Leu	Asp	Val	Ala	Thr 160		Thr	Glu	Tyr	Leu 165
Asn	Phe	Glu	Lys			Ser	Val	Ser	Arg 175		Gly	Ala	Ser	Gln 180
Val	Glu	Asp	Met			Ile	Ile	Leu			Ile	Ser	Glu	
Tyr	Asn	His	Arg		Ser	Asp	Pro	Glu		Val	Asn	Tyr	Lys	
Glu	Ser	Gly	Thr		Ser	Lys	Met	Glu		Ile	Asp	Asp	Asn	
Val	Val	Arg	Ala		Gly	Leu	Pro	Trp		Ser	Ser	Asp	Gln	
Ile	Ala	Arg	Phe		Lys	Gly	Leu	Asn		Ala	Lys	Gly	Gly	
Ala	Leu	Cys	Leu		Ala	Gln	Gly	Arg		Asn	Gly	Glu	Ala	
Val	Arg	Phe	Val		Glu	Glu	His	Arg		Leu	Ala	Leu	Gln	
His	Lys	His	His		Gly	Thr	Arg	Tyr		Glu	Val	Tyr	Lys	
Thr	Gly	Glu	Asp		Leu	Lys	Ile	Ala		Gly	Thr	Ser	Asn	
Val	Ala	Gln	Phe		Ser	Lys	Glu	Asn		Val	Ile	Val	Arg	
Arg	Gly	Leu	Pro		Thr	Ala	Thr	Ala		Glu	Val	Val	Ala	
Phe	Gly	Gln	His		Pro	Ile	Thr	Gly	Gly 355	Lys	Glu	Gly	Ile	Leu 360
Phe	Val	Thr	Tyr	Pro 365	Asp	Gly	Arg	Pro	Thr 370	Gly	Asp	Ala	Phe	Val 375
Leu	Phe	Ala	Cys	Glu 380	Glu	Tyr	Ala	Gln	Asn 385	Ala	Leu	Arg	Lys	His 390
Lys	Asp	Leu	Leu	Gly 395	Lys	Arg	Tyr	Ile	Glu 400	Leu	Phe	Arg	Ser	Thr 405
Ala	Ala	Glu	Val	Gln 410	Gln	Val	Leu	Asn	Arg 415	Phe	Ser	Ser	Ala	Pro 420
Leu	Ile	Pro	Leu	Pro 425	Thr	Pro	Pro	Ile	Ile 430	Pro	Val	Leu	Pro	Gln 435
Gln	Phe	Val	Pro	Pro 440	Thr	Asn	Val	Arg	Asp 445	Cys	Ile	Arg	Leu	Arg 450
			Tyr	455					460					465
			Ala	470					475					480
			Gln	485					490					495
			Asp	500					505					510
Lys	Asn	Met	Lys	Asp 515	Arg	Tyr	Val	Glu	Val 520	Phe	Gln	Cys	Ser	Ala 525
			Asn	530					535					540
_			Pro	545			_		550					555
			Phe	560					565					570
Ala	Ile	Tyr	Gln	Pro	Ser	Val	Ile	Leu	Asn	Pro	Arg	Ala	Leu	Gln

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580
                575
Pro Ser Thr Ala Tyr Tyr Pro Ala Gly Thr Gln Leu Phe Met Asn
                                    595
Tyr Thr Ala Tyr Tyr Pro Ser Pro Pro Gly Ser Pro Asn Ser Leu
                                    610
Gly Tyr Phe Pro Thr Ala Ala Asn Leu Ser Gly Val Pro Pro Gln
                                     625
                620
Pro Gly Thr Val Val Arg Met Gln Gly Leu Ala Tyr Asn Thr Gly
                                    640
Val Lys Glu Ile Leu Asn Phe Phe Gln Gly Tyr Gln Tyr Ala Thr
                                    655
                650
Glu Asp Gly Leu Ile His Thr Asn Asp Gln Ala Arg Thr Leu Pro
                                    670
                665
Lys Glu Trp Val Cys Ile
                680
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<210> 13
<211> 408
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No.: 2879070CD1

<400> 13

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Met Ser Ser Leu Val Glu Thr Phe Val Ser Lys Ala Ser Ala Leu 10 Gln Arg Gln Gly Arg Ala Gly Arg Val Arg Asp Gly Phe Cys Phe 25 Arg Met Tyr Thr Arg Glu Arg Phe Glu Gly Phe Met Asp Tyr Ser 40 Val Pro Glu Ile Leu Arg Val Pro Leu Glu Glu Leu Cys Leu His 55 Ile Met Lys Cys Asn Leu Gly Ser Pro Glu Asp Phe Leu Ser Lys 70 Ala Leu Asp Pro Pro Gln Leu Gln Val Ile Ser Asn Ala Met Asn 80 Leu Leu Arg Lys Ile Gly Ala Cys Glu Leu Asn Glu Pro Lys Leu 100 Thr Pro Leu Gly Gln His Leu Ala Ala Leu Pro Val Asn Val Lys 115 110 Ile Gly Lys Met Leu Ile Phe Gly Ala Ile Phe Gly Cys Leu Asp 130 125 Pro Val Ala Thr Leu Ala Ala Val Met Thr Glu Lys Ser Pro Phe 140 145 Thr Thr Pro Ile Gly Arg Lys Asp Glu Ala Asp Leu Ala Lys Ser 155 160 Ala Leu Ala Met Ala Asp Ser Asp His Leu Thr Ile Tyr Asn Ala 170 175 Tyr Leu Gly Trp Lys Lys Ala Arg Gln Glu Gly Gly Tyr Arg Ser 190 185 Glu Ile Thr Tyr Cys Arg Arg Asn Phe Leu Asn Arg Thr Ser Leu 205 200 Leu Thr Leu Glu Asp Val Lys Gln Glu Leu Ile Lys Leu Val Lys 225 220 215

<210> 14

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Ala Ala Gly Phe Ser Ser Ser Thr Thr Ser Thr Ser Trp Glu Gly
                                    235
Asn Arg Ala Ser Gln Thr Leu Ser Phe Gln Glu Ile Ala Leu Leu
                                    250
Lys Ala Val Leu Val Ala Gly Leu Tyr Asp Asn Val Gly Lys Ile
                                     265
                260
Ile Tyr Thr Lys Ser Val Asp Val Thr Glu Lys Leu Ala Cys Ile
                                    280
                275
Val Glu Thr Ala Gln Gly Lys Ala Gln Val His Pro Ser Ser Val
                                    295
                290
Asn Arg Asp Leu Gln Thr His Gly Trp Leu Leu Tyr Gln Glu Lys
                                    310
                305
Ile Arg Tyr Ala Arg Val Tyr Leu Arg Glu Thr Thr Leu Ile Thr
                                    325
                320
Pro Phe Pro Val Leu Leu Phe Gly Gly Asp Ile Glu Val Gln His
                                    340
Arg Glu Arg Leu Leu Ser Ile Asp Gly Trp Ile Tyr Phe Gln Ala
                350
Pro Val Lys Ile Ala Val Ile Phe Lys Gln Leu Arg Val Leu Ile
                                    370
Asp Ser Val Leu Arg Lys Lys Leu Glu Asn Pro Lys Met Ser Leu
                380
Glu Asn Asp Lys Ile Leu Gln Ile Ile Thr Glu Leu Ile Lys Thr
                                    400
Glu Asn Asn
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<211> 351 <212> PRT <213> Homo sapiens <220> <221> misc feature <223> Incyte ID No.: 3093845CD1 <400> 14 Met Ile Pro Lys Ser Tyr Thr Glu Glu Asp Leu Arg Glu Lys Phe Lys Val Tyr Gly Asp Ile Glu Tyr Cys Ser Ile Ile Lys Asn Lys 25 Val Thr Gly Glu Ser Lys Gly Leu Gly Tyr Val Arg Tyr Leu Lys 40 35 Pro Ser Gln Ala Ala Gln Ala Ile Glu Asn Cys Asp Arg Ser Phe 55 50 Arg Ala Ile Leu Ala Glu Pro Lys Asn Lys Ala Ser Glu Ser Ser 70 65 Glu Gln Asp Tyr Tyr Ser Asn Met Arg Gln Glu Ala Leu Gly His 85 Glu Pro Arg Val Asn Met Phe Pro Phe Val Gly Glu Gln Gln Ser Glu Phe Ser Ser Phe Asp Lys Asn Asp Ser Arg Gly Gln Glu Ala 110 Ile Ser Lys Arg Leu Ser Val Val Ser Arg Val Pro Phe Thr Glu 130 125 Glu Gln Leu Phe Ser Ile Phe Asp Ile Val Pro Gly Leu Glu Tyr

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145 140 Cys Glu Val Gln Arg Asp Pro Tyr Ser Asn Tyr Gly His Gly Val 155 Val Gln Tyr Phe Asn Val Ala Ser Ala Ile Tyr Ala Lys Tyr Lys Leu His Gly Phe Gln Tyr Pro Pro Gly Asn Arg Ile Gly Val Ser 185 Phe Ile Asp Asp Gly Ser Asn Ala Thr Asp Leu Leu Arg Lys Met 205 200 Ala Thr Gln Met Val Ala Ala Gln Leu Ala Ser Met Val Trp Asn 220 215 Asn Pro Ser Gln Gln Gln Phe Met Gln Phe Gly Gly Ser Ser Gly 230 235 Ser Gln Leu Pro Gln Ile Gln Thr Asp Val Val Leu Pro Ser Cys 250 245 Lys Lys Lys Ala Pro Ala Glu Thr Pro Val Lys Glu Arg Leu Phe 265 Ile Val Phe Asn Pro His Pro Leu Pro Leu Asp Val Leu Glu Asp 280 275 Ile Phe Cys Arg Phe Gly Asn Leu Ile Glu Val Tyr Leu Val Ser 295 Gly Lys Asn Val Gly Tyr Ala Lys Tyr Ala Asp Arg Ile Ser Ala 305 310 Asn Asp Ala Ile Ala Thr Leu His Gly Lys Ile Leu Asn Gly Val 320 325 Arg Leu Lys Val Met Leu Ala Asp Ser Pro Arg Glu Glu Ser Asn 340 335 Lys Arg Gln Arg Thr Tyr 350

<210> 15 <211> 472 <212> PRT <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 3685685CD1

<400> 15

Met Gly Gln Ser Gly Arg Ser Arg His Gln Lys Arg Ala Arg Ala Gln Ala Gln Leu Arg Asn Leu Glu Ala Tyr Ala Ala Asn Pro His 20 25 Ser Phe Val Phe Thr Arg Gly Cys Thr Gly Arg Asn Ile Arg Gln 35 40 Leu Ser Leu Asp Val Arg Arg Val Met Glu Pro Leu Thr Ala Ser 50 55 Arg Leu Gln Val Arg Lys Lys Asn Ser Leu Lys Asp Cys Val Ala 65 70 Val Ala Gly Pro Leu Gly Val Thr His Phe Leu Ile Leu Ser Lys 85 Thr Glu Thr Asn Val Tyr Phe Lys Leu Met Arg Leu Pro Gly Gly 95 100 Pro Thr Leu Thr Phe Gln Val Lys Lys Tyr Ser Leu Val Arg Asp 110 115

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Val Val Ser Ser Leu Arg Arg His Arg Met His Glu Gln Gln Phe 130 125 Ala His Pro Pro Leu Leu Val Leu Asn Ser Phe Gly Pro His Gly 145 Met His Val Lys Leu Met Ala Thr Met Phe Gln Asn Leu Phe Pro 160 155 Ser Ile Asn Val His Lys Val Asn Leu Asn Thr Ile Lys Arg Cys 175 170 Leu Leu Ile Asp Tyr Asn Pro Asp Ser Gln Glu Leu Asp Phe Arg 190 185 His Tyr Ile Lys Val Val Pro Val Gly Ala Ser Arg Gly Met Lys 205 200 Lys Leu Leu Gln Glu Lys Phe Pro Asn Met Ser Arg Leu Gln Asp 220 215 Ile Ser Glu Leu Leu Ala Thr Gly Ala Gly Leu Ser Glu Ser Glu 230 235 Ala Glu Pro Asp Gly Asp His Asn Ile Thr Glu Leu Pro Gln Ala 250 Val Ala Gly Arg Gly Asn Met Arg Ala Gln Gln Ser Ala Val Arg 260 Leu Thr Glu Ile Gly Pro Arg Met Thr Leu Gln Leu Ile Lys Val 280 275 Gln Glu Gly Val Gly Glu Gly Lys Val Met Phe His Ser Phe Val 295 290 Ser Lys Thr Glu Glu Glu Leu Gln Ala Ile Leu Glu Ala Lys Glu 310 305 Lys Lys Leu Arg Leu Lys Ala Gln Arg Gln Ala Gln Gln Ala Gln 325 320 Asn Val Gln Arg Lys Gln Glu Gln Arg Glu Ala His Arg Lys Lys 340 335 Ser Leu Glu Gly Met Lys Lys Ala Arg Val Gly Gly Ser Asp Glu 355 350 Glu Ala Ser Gly Ile Pro Ser Arg Thr Ala Ser Leu Glu Leu Gly 370 365 Glu Asp Asp Asp Glu Gln Glu Asp Asp Ile Glu Tyr Phe Cys 385 Gln Ala Val Gly Glu Ala Pro Ser Glu Asp Leu Phe Pro Glu Ala 400 395 Lys Gln Lys Arg Leu Ala Lys Ser Pro Gly Arg Lys Arg Lys Arg 415 410 Trp Glu Met Asp Arg Gly Arg Gly Arg Leu Cys Asp Gln Lys Phe 430 425 Pro Lys Thr Lys Asp Lys Ser Gln Gly Ala Gln Ala Arg Arg Gly 440 445 Pro Arg Gly Ala Ser Arg Asp Gly Gly Arg Gly Arg Gly Arg Gly 455 460 Arg Pro Gly Lys Arg Val Ala 470

<210> 16

<211> 616

<212> PRT

<213> Homo sapiens

<220>

<221> misc feature <223> Incyte ID No.: 3825977CD1 <400> 16 Met Ser Ser Leu Ala Val Arg Asp Pro Ala Met Asp Arg Ser Leu Arg Ser Val Phe Val Gly Asn Ile Pro Tyr Glu Ala Thr Glu Glu 20 25 Gln Leu Lys Asp Ile Phe Ser Glu Val Gly Ser Val Val Ser Phe 40 35 Arg Leu Val Tyr Asp Arg Glu Thr Gly Lys Pro Lys Gly Tyr Gly 50 Phe Cys Glu Tyr Gln Asp Gln Glu Thr Ala Leu Ser Ala Met Arg 70 65 Asn Leu Asn Gly Arg Glu Phe Ser Gly Arg Ala Leu Arg Val Asp 80 Asn Ala Ala Ser Glu Lys Asn Lys Glu Glu Leu Lys Ser Leu Gly 100 Pro Ala Ala Pro Ile Ile Asp Ser Pro Tyr Gly Asp Pro Ile Asp 110 Pro Glu Asp Ala Pro Glu Ser Ile Thr Arg Ala Val Ala Ser Leu 130 125 Pro Pro Glu Gln Met Phe Glu Leu Met Lys Gln Met Lys Leu Cys 145 140 Val Gln Asn Ser His Gln Glu Ala Arg Asn Met Leu Leu Gln Asn 160 155 Pro Gln Leu Ala Tyr Ala Leu Leu Gln Ala Gln Val Val Met Arg 170 175 Ile Met Asp Pro Glu Ile Ala Leu Lys Ile Leu His Arg Lys Ile 190 185 His Val Thr Pro Leu Ile Pro Gly Lys Ser Gln Ser Val Ser Val 205 200 Ser Gly Pro Gly Pro Gly Pro Gly Leu Cys Pro Gly Pro 220 215 Asn Val Leu Leu Asn Gln Gln Asn Pro Pro Ala Pro Gln Pro Gln 230 His Leu Ala Arg Arg Pro Val Lys Asp Ile Pro Pro Leu Met Gln 250 245 Thr Pro Ile Gln Gly Gly Ile Pro Ala Pro Gly Pro Ile Pro Ala 265 260 Ala Val Pro Gly Ala Gly Pro Gly Ser Leu Thr Pro Gly Gly Ala 280 275 Met Gln Pro Gln Leu Gly Met Pro Gly Val Gly Pro Val Pro Leu 290 295 Glu Arg Gly Gln Val Gln Met Ser Asp Pro Arg Ala Pro Ile Pro 310 305 Arg Gly Pro Val Thr Pro Gly Gly Leu Pro Pro Arg Gly Leu Leu 325 320 Gly Asp Ala Pro Asn Asp Pro Arg Gly Gly Thr Leu Leu Ser Val 340 Thr Gly Glu Val Glu Pro Arg Gly Tyr Leu Gly Pro Pro His Gln 350 Gly Pro Pro Met His His Ala Ser Gly His Asp Thr Arg Gly Pro 375 370 Ser Ser His Glu Met Arg Gly Gly Pro Leu Gly Asp Pro Arg Leu 385 380

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Leu Ile Gly Glu Pro Arg Gly Pro Met Ile Asp Gln Arg Gly Leu 400 Pro Met Asp Gly Arg Gly Gly Arg Asp Ser Arg Ala Met Glu Thr 415 Arg Ala Met Glu Thr Glu Val Leu Glu Thr Arg Val Met Glu Arg 425 Arg Gly Met Glu Thr Cys Ala Met Glu Thr Arg Gly Met Glu Ala 445 Arg Gly Met Asp Ala Arg Gly Leu Glu Met Arg Gly Pro Val Pro 460 455 Ser Ser Arg Gly Pro Met Thr Gly Gly Ile Gln Gly Pro Gly Pro 475 470 Ile Asn Ile Gly Ala Gly Gly Pro Pro Gln Gly Pro Arg Gln Val 485 490 Pro Gly Ile Ser Gly Val Gly Asn Pro Gly Ala Gly Met Gln Gly 505 Thr Gly Ile Gln Gly Thr Gly Met Gln Gly Ala Gly Ile Gln Gly 520 Gly Gly Met Gln Gly Ala Gly Ile Gln Gly Val Ser Ile Gln Gly 530 Gly Gly Ile Gln Gly Gly Ile Gln Gly Ala Ser Lys Gln Gly 550 545 Gly Ser Gln Pro Ser Ser Phe Ser Pro Gly Gln Ser Gln Val Thr 565 560 Pro Gln Asp Gln Glu Lys Ala Ala Leu Ile Met Gln Val Leu Gln 580 575 Leu Thr Ala Asp Gln Ile Ala Met Leu Pro Pro Glu Gln Arg Gln 595 590 Ser Ile Leu Ile Leu Lys Glu Gln Ile Gln Lys Ser Thr Gly Ala 610 615 Ser

<210> 17

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 4941262CD1

<400> 17

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Phe Met Tyr Pro Ser Ser Ile

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<210> 18
<211> 1872
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<223> Incyte ID No.: 399781CB1
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acgtetetgt tegteaggaa egtggeegae gacaceaggt etgaagaett geggegtgaa 180
tttggtcgtt atggtcctat agttgatgtg tatgttccac ttgatttcta cactcgccgt 240
ccaagaggat ttgcttatgt tcaatttgag gatgttcgtg atgctgaaga cgctttacat 300
aatttggaca gaaagtggat ttgtggacgg cagattgaaa tacagtttgc ccagggggat 360
cgaaagacac caaatcagat gaaagccaag gaagggagga atgtgtacag ttcttcacgc 420
tatgatgatt atgacagata cagacgttct agaagccgaa gttatgaaag gaggagatca 480
agaagteggt ettttgatta caactataga agategtata gteetagaaa cagtagaceg 540
actggaagac cacggcgtag agaagccatt ccgacaatga tagaccaaac tgcagctgga 600
atacccagta cagttctgct tactacactt caagaaagat ctgaaagcgg aaaaagaacc 660
aaagaagggc agttcaagcg accaaagggt gggtggaagg tgctgcagta tgaatactgt 720
acgaatattt tgactctggt ctgaaaagat aaaagaatgt tatcgaaaac tacatggaat 780
aattgaagtc ccttcaagtt tgaaagtaag cattttagga caaataaaag gaaattcaac 840
tttgtacttg tggaaactaa tccctaaata tgaataggtt tatattgatt catgggtaac 900
aggtccataa taaattattg gaaactagga tgtctgaata tcaaggaaga cagccatagt 960
ctcttacagt gcctctgttg gtctgtctca aactgaattg ggtgggaaaa ggtatggtcc 1020
aatataaaag ttccattttt gccattattg gcaaatcttg cctttgttta ttttggtgcc 1080
agtgttttct gcttaatcat ttgctttgtt ggcatctgtg tttatttact tgtacaccac 1140
atgcagttta catctgtctt aactactcct tcccaggtaa attccaatta tatttgacat 1200
ccagctaaga gggcccatct cttctcacct ctttcctagt cagtatattc agcaaatatt 1260
tattgagccc ttactgtggg caaatcattg tactggataa ttgagaaaaa tagataattc 1320
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gttttgtttg aggtgtgtta ttcataacaa tattttacac cattcgtatc aatgtaatta 1440
tagaacacaa tatacgatca aggataagta attgtgtggt tatctgccat ttaaaagtat 1500
ccagtatttg atcacattat tataaataat gaaaaaatga tttaatctgt aataaactgg 1560
tttattqtqc aqtqactqta atatactaga gttataataa attgtttact ctgcctcacc 1620
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agactgggtg ctataattag attattttga ggcagacaga gagctgttat cctaactgat 1740
ttagtatgtt ctgtaattga gaaaatgttc accaaattat actttttagt gatttacatg 1800
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aaaaaaaaa aa
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<210> 19
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WO 00/15799

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Tyr Thr Arg Arg Pro Arg Gly Phe Ala Tyr Val Gln Phe Glu Asp
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Val Arg Asp Ala Glu Asp Ala Leu His Asn Leu Asp Arg Lys Trp
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Ile Cys Gly Arg Gln Ile Glu Ile Gln Phe Ala Gln Gly Asp Arg
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Lys Thr Pro Asn Gln Met Lys Ala Lys Glu Gly Arg Asn Val Tyr
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Ser Arg Ser Tyr Glu Arg Arg Arg Ser Arg Ser Arg Ser Phe Asp
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Tyr Asn Tyr Arg Arg Ser Tyr Ser Pro Arg Asn Ser Arg Pro Thr
                                    145
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Gly Arg Pro Arg Arg Ser Arg Ser His Ser Asp Asn Asp Arg Pro
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Ala Asp Arg Pro Gly Leu Pro Gly Pro Glu His Ser Pro Ser Glu
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Ser Gln Pro Ser Ser Pro Ser Pro Thr Pro Ser Pro Ser Pro Val
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Leu Glu Pro Gly Ser Glu Pro Asn Leu Ala Val Leu Ser Ile Pro
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Gly Asp Thr Met Thr Thr Ile Gln Met Ser Val Glu Glu Ser Thr
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Pro Ile Ser Arg Glu Thr Gly Glu Pro Tyr Arg Leu Ser Pro Glu
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Pro Thr Pro Leu Ala Glu Pro Ile Leu Glu Val Glu Val Thr Leu
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                125
Ser Lys Pro Val Pro Glu Ser Glu Phe Ser Ser Pro Leu Gln
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                                    145
Ala Pro Thr Pro Leu Ala Ser His Thr Val Glu Ile His Glu Pro
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Asn Gly Met Val Pro Ser Glu Asp Leu Glu Pro Glu Val Glu Ser
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                                    175
Ser Pro Glu Leu Ala Pro Pro Pro Ala Cys Pro Ser Glu Ser Pro
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Ala Pro Ser Pro Pro Ala Val Asp Leu Ser Pro Val Ser Glu Pro
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Gln	Asn	Leu	Glu		Ala	Ala	Ala	Thr		Val	Ala	Val	Ser	
Pro	Lys	Arg	Arg	305 Arg	Lys	Ile	Lys	Glu		Asn	Lys	Lys	Glu	
Val	Gly	Asp	Leu	320 Leu	Asp	Ala	Phe	Lys	325 Glu	Ala	Asn	Pro	Ala	
Dro	Clu	Wal	Glu	335	Gln	Pro	Pro	Δla	340 Glv	Ser	Asn	Pro	Glv	345 Pro
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Thr	Pro	Leu	Arg		Leu	Asp	Pro	Thr		Leu	Gln	Gly	Ile	
Cys	Gly	Pro	Asp		Thr	Pro	Ser	Phe		Asn	Leu	Gly	Arg	
Thr	Leu	Ser	Thr	Arg	Gly	Pro	Pro	Arg		Gly	Pro	Gly	Gly	
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				545					550	Asp				555
Asp	Ala	Asp	Gly	Ser 560	Lys	Thr	Gln	Asp	Leu 565	Phe	Arg	Arg	Val	Arg 570
Ser	Ile	Leu	Asn	Lys 575	Leu	Thr	Pro	Gln	Met 580	Phe	Gln	Gln	Leu	Met 585
Lys	Gln	Val	Thr		Leu	Ala	Ile	Asp	Thr 595	Glu	Glu	Arg	Leu	Lys 600
Gly	Val	Ile	Asp		Ile	Phe	Glu	Lys		Ile	Ser	Glu	Pro	Asn 615
Phe	Ser	Val	Ala		Ala	Asn	Met	Cys		Cys	Leu	Met	Ala	
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Lys	Leu	Leu	Leu		Arg	Cys	Gln	Lys		Phe	Glu	Lys	Asp	

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Glu	Ala	Arg	Asp		Ala	Arg	Arg	Arg	Ser 700	Leu	Gly	Asn	Ile	Lys 705
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Leu	Asp	Phe	Glu	Lys 755	Ala	Lys	Pro	Arg	Met 760	Asp	Gln	Tyr	Phe	Asn 765
Gln	Met	Glu	Lys	Ile 770	Ile	Lys	Glu	Lys	Lys 775	Thr	Ser	Ser	Arg	Ile 780
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Val	Pro	Arg	Arg	Gly 800	Asp	Gln	Gly	Pro	Lys 805	Thr	Ile	Asp	Gln	Ile 810
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				830				Asp	835					840
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				920				Thr	925					930
				935				Ser	940					945
				950				Glu	955					960
				965				Ser	970					975
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				995					.000				1	.005
		_	1	.010					.015				1	.020
			1	.025					.030				1	.035
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WO 00/15799

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WO 00/15799

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His Phe G	11 71 -	20	~1.v	Mot	T All	25 Tage	λεη	Glu	Val	Δrσ		
His Phe G	iy iie	HIS GIU	GIU	Mec	пеп	40	ASP	Olu	Vul	A-9	45	
Leu Thr T	'vr Arg		Met	Phe	His		Arg	His	Leu	Phe	Lys	
		50				55					60	
Asp Lys V	al Val	Leu Asp	Val	Gly	Ser	Gly	Thr	Gly	Ile	Leu		
		65			_	70		~7.	a 1	- 1 -	75	
Met Phe A	la Ala		Gly	Ala	Arg	Lys 85	vaı	TIE	GIY	тте	va⊥ 90	
Cys Ser S	or Tle	80 Ser Asp	Tur	Δla	Val		Tle	Val	Lvs	Ala		
Cys ser s	er rre	95	- y -			100			-1 -		105	
Lys Leu A	sp His		Thr	Ile	Ile	Lys	Gly	Lys	Val	Glu	Glu	
		110				115					120	
Val Glu L	eu Pro		Lys	Val	Asp		Ile	Ile	Ser	Glu		
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Tyr Ala A	ra Asp		Leu	Ala	Pro		Gly	Leu	Ile	Phe		
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Asp Arg A	la Thr	Leu Tyr	Val	Thr	Ala		Glu	Asp	Arg	Gln		
		170		_	~ 3	175	77- 7		G3	Dho	180	
Lys Asp T	yr Lys	Ile His	Trp	Trp	GIU	190	vaı	Tyr	GIY	File	195	
Met Ser C	'vs Tle		Val	Ala	Ile		Glu	Pro	Leu	Val		
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Val Val A	sp Pro	Lys Gln	Leu	Val	Thr	Asn	Ala	Cys	Leu	Ile		
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Thr Gly P	he Ser		Pro	Glu	Ser		Tyr	Thr	Hıs	Trp	Lys 285	
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		335				340						